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ENVIRONMENTAL RESEARCH & TECHNOLOGY, INC.

696 VIRGINIA ROAD, CONCORD, MASSACHUSETTS 01742, USA, (617) 369-8910, TELEX: 923 335 ENVIRORES CNCM, CABLE: ERTCON

REF: 120-JTL-051

20 July 1983

bcc: T. Zimmer
E. Moore
N. Cichowicz
P. Call

Mr. Paul Duff
Olin Corporation
120 Long Ridge Road
Stamford, Connecticut 06904

Reference: Pine Swamp June 1980 Analytical Data

Dear Paul:

In response to your request of 27 June 1983, ERT has prepared the following description of the June 1980 sample collection and analysis round at the Pine Swamp site.

ERT collected surface-water, ground-water, and sediment samples on 10 and 11 June 1980 at the Pine Swamp site in Hamden, Connecticut. Surface-water and sediment samples were taken from thirteen stations in Ponds A, B, C, D, and E, from streams tributary to these ponds and from Lake Whitney. Ground-water samples were taken from 17 wells of which thirteen were monitoring wells installed by ERT; the remainder were existing production wells. Of these samples, eight ground-water, three surface-water, and three sediment samples along with one field blank were prepared for organic priority pollutant analyses.

These samples were shipped to Spectrix Corporation of Houston, Texas on 13 June 1980. Spectrix Corporation received these samples on 16 June 1980. One surface-water and one ground-water sample bottle were broken during shipping. These samples were replaced by new samples that were taken on and shipped to Spectrix Corporation on 18 June 1980. These samples arrived at Spectrix Corporation on 20 June 1980. All samples that were prepared for volatile organic priority pollutant analysis were analyzed on 10, 11, and 12

The holding time (that time between sample collection and analysis) for volatile organic analysis is fourteen days according to the U.S. Environmental Protection Agency Handbook for Sampling and Sample Preservation of Water and Wastewater, EPA-600/4-82-029. This holding time is specifically recommended for water and wastewater; however, it is generally accepted that these procedures should be applicable to sediment samples also. The holding time was exceeded for the samples that were taken on 10, 11, and 18 June 1980 for volatile organic priority pollutants. The data produced from these analyses, therefore, were not developed in accordance with EPA's procedures.

Sincerely yours,

Jeffrey T. Dawson
Engineering Geologist

JTL:dcz



SEMS DocID 624164

JAN 1, 1982

PINE SWAMP
ORGANIC ANALYTICAL DATA SYNOPSIS

	SAMPLE #2 DEEP GROUNDWATER	SAMPLE #2A SHALLOW GROUNDWATER	SAMPLE #3 DEEP GROUNDWATER	SAMPLE #3A SHALLOW GROUNDWATER
<u>BASE NEUTRAL (6/10/80)</u>				
Di Ethyl Phthalate	-	-	2ppb	
Di N Butyl Phthalate	25ppb	3ppb	-	
Bis (2 Ethylhexyl) Phthalate	20ppb	5ppb	3ppb	
<hr/>				
<u>VOA (6/10/80 collected run 7/11/80 - 31 days)</u>				
Methylene Chloride	30	73	64	38
1,1,1 Trichloroethane	3	6	8	5
Toluene	7		65	24
Chloroform		4		
Tetrachloroethylene		83	10	3
1,2 Dichlorethane			70	70
Ethylbenzene			78	
				} Data Invalid Because It Wasn't Within 14 Days
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<u>VOA (12/ /80 collected * run 12/17/80)</u>				
Methylene Chloride	1(12-11)	2(13-11)	14(25-11)	11(22-11)

* To obtain actual value subtract lab blank from analysis.

Note: EPA method 624 (Federal Register December 3, 1979 Vol. 44#233 p. 69536) states limit of detection on the above compounds is 10ppb.

Note: Of 10 pieces of data, 60% is below the EPA detection limit. The values for phthalates are typical for this type sampling because of water contact with plastic sampling lines, bottles, etc.

ATTACHMENT B